

## **Abstract**

### **Composite material comprising core/shell particles**

5       The invention relates to composite materials having an optical effect,  
comprising at least one moulding which essentially consists of core/shell  
particles whose shell forms a matrix and whose core is essentially solid and  
has an essentially monodisperse size distribution, where a difference exists  
10       between the refractive indices of the core material and of the shell material,  
and at least one further material which determines the mechanical  
properties of the composite, and to a process for the production of the  
composite materials. The materials according to the invention exhibit a  
viewing angle-dependent colour effect with freely adjustable mechanical  
15       properties.